



DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2014-1001; Directorate Identifier 2014-CE-034-AD]

RIN 2120-AA64

Airworthiness Directives; Short Brothers & Harland Ltd. Airplanes

AGENCY: Federal Aviation Administration (FAA), Department of Transportation (DOT).

ACTION: Notice of proposed rulemaking (NPRM).

SUMMARY: We propose to adopt a new airworthiness directive (AD) for Short Brothers & Harland Ltd. Model SC-7 Series 3 airplanes. This proposed AD results from mandatory continuing airworthiness information (MCAI) originated by an aviation authority of another country to identify and correct an unsafe condition on an aviation product. The MCAI describes the unsafe condition as fatigue cracking, which could lead to structural failure of the nose landing gear (NLG). We are issuing this proposed AD to require actions to address the unsafe condition on these products.

DATES: We must receive comments on this proposed AD by **[INSERT DATE 45 DAYS AFTER DATE OF PUBLICATION IN THE FEDERAL REGISTER]**.

ADDRESSES: You may send comments by any of the following methods:

- Federal eRulemaking Portal: Go to <http://www.regulations.gov>. Follow the instructions for submitting comments.
- Fax: (202) 493-2251.
- Mail: U.S. Department of Transportation, Docket Operations, M-30, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue, SE, Washington, DC 20590.
- Hand Delivery: U.S. Department of Transportation, Docket Operations, M-30, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue, SE.,

Washington, DC 20590, between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.

For Short Brothers & Harland Ltd. service information identified in this proposed AD, contact Airworthiness, Short Brothers PLC, P.O. Box 241, Airport Road, Belfast, BT3 9DZ Northern Ireland, United Kingdom; phone: +44-2890-462469, fax: 44-2890-733647, email: michael.mulholland@aero.bombardier.com, internet: None; and for SAFRAN Messier-Buggatti-Dowty service information contact Messier-Dowty Limited, Cheltenham Road, Gloucester GL2 9QH, ENGLAND; phone: +44(0)1452 712424; fax: +44(0)1452 713821; email: americacsc@safranmbd.com, Internet: <http://www.safranmbd.com>. You may review this referenced service information at the FAA, Small Airplane Directorate, 901 Locust, Kansas City, Missouri 64106. For information on the availability of this material at the FAA, call (816) 329-4148.

Examining the AD Docket

You may examine the AD docket on the Internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2014-1001; or in person at the Docket Management Facility between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The AD docket contains this proposed AD, the regulatory evaluation, any comments received, and other information. The street address for the Docket Office (telephone (800) 647-5527) is in the **ADDRESSES** section. Comments will be available in the AD docket shortly after receipt.

FOR FURTHER INFORMATION CONTACT: Doug Rudolph, Aerospace Engineer, FAA, Small Airplane Directorate, 901 Locust, Room 301, Kansas City, Missouri 64106; telephone: (816) 329-4059; fax: (816) 329-4090; email: doug.rudolph@faa.gov.

SUPPLEMENTARY INFORMATION:

Comments Invited

We invite you to send any written relevant data, views, or arguments about this proposed AD. Send your comments to an address listed under the **ADDRESSES** section.

Include “Docket No. FAA-2014-1001; Directorate Identifier 2014-CE-034-AD” at the beginning of your comments. We specifically invite comments on the overall regulatory, economic, environmental, and energy aspects of this proposed AD. We will consider all comments received by the closing date and may amend this proposed AD because of those comments.

We will post all comments we receive, without change, to <http://regulations.gov>, including any personal information you provide. We will also post a report summarizing each substantive verbal contact we receive about this proposed AD.

Discussion

The European Aviation Safety Agency (EASA), which is the Technical Agent for the Member States of the European Community, has issued AD No.: 2014-0246, dated November 12, 2014 (referred to after this as “the MCAI”), to correct an unsafe condition for the specified products. The MCAI states:

A fracture of the nose landing gear (NLG) sliding tube was reported. The subsequent investigation determined fatigue cracking as possible cause of the failure.

This condition, if not detected and corrected, could lead to structural failure of the NLG, possibly resulting in loss of control of the aeroplane during take-off or landing.

To address this unsafe condition, the Messier-Dowty Ltd, the NLG manufacturer, issued Service Bulletin (SB) 32-17M to provide inspection instructions. Consequently Short Brothers PLC issued SB 32-74 which references Messier-Dowty Ltd SB 32-17M.

For the reasons described above, this AD requires one-time visual and fluorescent penetrant inspections and, depending on findings, accomplishment of applicable corrective action(s).

The MCAI requires you report the findings to Short Brothers PLC to obtain approved repair instructions and accomplish the repair accordingly. You may examine the MCAI on the Internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2014-1001.

Relevant Service Information

Short Brothers & Harland Ltd. has issued Shorts Service Bulletin Number 32-74, dated November 1, 2014; and SAFRAN Messier-Buggatti-Dowty has issued Service Bulletin No. 32-17M, dated November 1, 2014. The actions described in this service information are intended to correct the unsafe condition identified in the MCAI.

FAA's Determination and Requirements of the Proposed AD

This product has been approved by the aviation authority of another country, and is approved for operation in the United States. Pursuant to our bilateral agreement with this State of Design Authority, they have notified us of the unsafe condition described in the MCAI and service information referenced above. We are proposing this AD because we evaluated all information and determined the unsafe condition exists and is likely to exist or develop on other products of the same type design.

Costs of Compliance

We estimate that this proposed AD will affect 24 products of U.S. registry. We also estimate that it would take about 5 work-hours per product to comply with the basic requirements of this proposed AD. The average labor rate is \$85 per work-hour.

Based on these figures, we estimate the cost of the proposed AD on U.S. operators to be \$10,200, or \$425 per product.

In addition, we estimate that any necessary follow-on actions would take about 16 work-hours and require parts costing \$25,000, for a cost of \$26,360 per product. We have no way of determining the number of products that may need these actions.

Paperwork Reduction Act

A federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to penalty for failure to comply with a collection of information subject to the requirements of the Paperwork Reduction Act unless that collection of information displays a current valid OMB control number. The control

number for the collection of information required by this AD is 2120-0056. The paperwork cost associated with this AD has been detailed in the Costs of Compliance section of this document and includes time for reviewing instructions, as well as completing and reviewing the collection of information. Therefore, all reporting associated with this AD is mandatory. Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at 800 Independence Ave., SW, Washington, DC 20591. ATTN: Information Collection Clearance Officer, AES-200.

Authority for this Rulemaking

Title 49 of the United States Code specifies the FAA's authority to issue rules on aviation safety. Subtitle I, section 106, describes the authority of the FAA Administrator. "Subtitle VII: Aviation Programs," describes in more detail the scope of the Agency's authority.

We are issuing this rulemaking under the authority described in "Subtitle VII, Part A, Subpart III, Section 44701: General requirements." Under that section, Congress charges the FAA with promoting safe flight of civil aircraft in air commerce by prescribing regulations for practices, methods, and procedures the Administrator finds necessary for safety in air commerce. This proposed regulation is within the scope of that authority because it addresses an unsafe condition that is likely to exist or develop on products identified in this rulemaking action.

Regulatory Findings

We determined that this proposed AD would not have federalism implications under Executive Order 13132. This proposed AD would not have a substantial direct effect on the States, on the relationship between the national Government and the States, or on the distribution of power and responsibilities among the various levels of government.

For the reasons discussed above, I certify this proposed regulation:

- (1) Is not a “significant regulatory action” under Executive Order 12866,
- (2) Is not a “significant rule” under the DOT Regulatory Policies and Procedures (44 FR 11034, February 26, 1979),
- (3) Will not affect intrastate aviation in Alaska, and
- (4) Will not have a significant economic impact, positive or negative, on a substantial number of small entities under the criteria of the Regulatory Flexibility Act.

List of Subjects in 14 CFR Part 39

Air transportation, Aircraft, Aviation safety, Incorporation by reference, Safety.

The Proposed Amendment

Accordingly, under the authority delegated to me by the Administrator, the FAA proposes to amend 14 CFR part 39 as follows:

PART 39 - AIRWORTHINESS DIRECTIVES

- 1. The authority citation for part 39 continues to read as follows:

Authority: 49 U.S.C. 106(g), 40113, 44701.

§ 39.13 [Amended]

- 2. The FAA amends § 39.13 by adding the following new AD:

Short Brothers & Harland Ltd.: Docket No. FAA-2014-1001; Directorate Identifier 2014-CE-034-AD.

(a) Comments Due Date

We must receive comments by **[INSERT DATE 45 DAYS AFTER DATE OF PUBLICATION IN THE FEDERAL REGISTER]**.

(b) Affected ADs

None.

(c) Applicability

This AD applies to Short Brothers & Harland Ltd. Model SC-7 Series 3 airplanes, all serial numbers, certificated in any category.

(d) Subject

Air Transport Association of America (ATA) Code 32: Landing Gear.

(e) Reason

This AD was prompted by mandatory continuing airworthiness information (MCAI) originated by an aviation authority of another country to identify and correct an unsafe condition on an aviation product. The MCAI describes the unsafe condition as fatigue cracking which could lead to structural failure of the nose landing gear (NLG). We are issuing this proposed AD to detect and correct fatigue cracking which, if not detected and corrected, could lead to structural failure of the NLG, possibly resulting in loss of control of the airplane during take-off or landing.

(f) Actions and Compliance

Unless already done, comply with this AD within the compliance times specified in paragraphs (f)(1) through (f)(5) of this AD, unless already done.

(1) Within 30 days after the effective date of this AD, accomplish a visual inspection of the NLG sliding tube following the instructions of paragraph 3.A of SAFRAN Messier-Bugatti-Dowty Service Bulletin No. 32-17M, dated November 1, 2014.

Note 1 to paragraphs (f)(1), (f)(2), (f)(4), and (f)(5) of this AD: Instructions provided by SAFRAN Messier-Buggatti-Dowty Service Bulletin No. 32-17M, dated November 1, 2014, are referenced in Shorts Service Bulletin Number 32-74, dated November 1, 2014.

(2) Within 90 days after the effective date of this AD, do a fluorescent penetrant inspection of the sliding tube following the instructions of paragraph 3.B of SAFRAN Messier-Buggatti-Dowty Service Bulletin No. 32-17M, dated November 1, 2014.

(3) If any crack is detected during the inspection required by paragraph (f)(1) or (f)(2) of this AD, before further flight, obtain FAA-approved repair instructions approved specifically for compliance with this AD by reporting the findings to Short Brothers & Harland Ltd and incorporating those instructions. You can find contact information for Short Brothers & Harland Ltd. in paragraph (h) of this AD.

(4) Within 30 days after any inspection required by paragraphs (f)(1) and (f)(2) of this AD or within 30 days after the effective date of this AD, whichever occurs later, report the inspection results to Short Brothers & Harland Ltd. by completing the Inspection Results Proforma following the instructions of paragraph 3.C.(2) of SAFRAN Messier-Buggatti-Dowty Service Bulletin No. 32-17M, dated November 1, 2014. You can find contact information for Short Brothers & Harland Ltd. in paragraph (h) of this AD.

(5) From the effective date of this AD, you may install a sliding tube on an NLG provided that, before next flight after installation, the NLG sliding tube passes the inspections in paragraphs (f)(1) and (f)(2) of this AD following the instructions of paragraph 3 of SAFRAN Messier-Buggatti-Dowty Service Bulletin No. 32-17M, dated November 1, 2014.

(g) Other FAA AD Provisions

The following provisions also apply to this AD:

(1) Alternative Methods of Compliance (AMOCs): The Manager, Standards Office, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19. Send information to ATTN: Doug Rudolph, Aerospace Engineer, FAA, Small Airplane Directorate, 901 Locust, Room 301, Kansas City, Missouri 64106; telephone: (816) 329-4059; fax: (816) 329-4090; email: doug.rudolph@faa.gov. Before using any approved AMOC on any airplane to which the AMOC applies, notify your appropriate principal inspector (PI) in the FAA Flight Standards District Office (FSDO), or lacking a PI, your local FSDO.

(2) Airworthy Product: For any requirement in this AD to obtain corrective actions from a manufacturer or other source, use these actions if they are FAA-approved. Corrective actions are considered FAA-approved if they are approved by the State of Design Authority (or their delegated agent). You are required to assure the product is airworthy before it is returned to service.

(3) Reporting Requirements: For any reporting requirement in this AD, a federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with a collection of information subject to the requirements of the Paperwork Reduction Act unless that collection of information displays a current valid OMB Control Number. The OMB Control Number for this information collection is 2120-0056. Public reporting for this collection of information is estimated to be approximately 5 minutes per response, including the time for reviewing instructions, completing and reviewing the collection of information. All responses to this collection of information are mandatory. Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at: 800 Independence Ave. SW, Washington, DC 20591, Attn: Information Collection Clearance Officer, AES-200.

(h) Related Information

MCAI European Aviation Safety Agency (EASA) AD No.: 2014-0246, dated November 12, 2014; and Shorts Service Bulletin Number 32-74, dated November 1, 2014, for related information. You may examine the MCAI on the Internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2014-1001. For Short Brothers & Harland Ltd. service information identified in this proposed AD, contact Airworthiness, Short Brothers PLC, P.O. Box 241, Airport Road, Belfast, BT3 9DZ Northern Ireland, United Kingdom; phone: +44-2890-462469, fax: 44-2890-733647, email: michael.mulholland@aero.bombardier.com, internet: None; and for Messier-Buggatti-Dowty service information contact Messier-Dowty Limited, Cheltenham Road, Gloucester GL2 9QH, ENGLAND; phone: +44(0)1452 712424; fax: +44(0)1452 713821; email: americacsc@safranmbd.com, Internet: <http://www.safranmbd.com>. You may review this referenced service information at the FAA, Small Airplane Directorate, 901 Locust, Kansas City, Missouri 64106. For information on the availability of this material at the FAA, call (816) 329-4148.

Issued in Kansas City, Missouri, on December 2, 2014.

Robert Busto,
*Acting Manager, Small Airplane Directorate,
Aircraft Certification Service.*

BILLING CODE 4910-13-P

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